

Bel. N<sup>o</sup> 8355.

Index No. 29072  
(For London Office only)

THU. JUN. 24 1920

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.—STEAM SHIPS.

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey Belfast  
Date of Survey 21<sup>st</sup> 22<sup>nd</sup> June 1920  
Name of Surveyor John Pollock

Particulars of Classification.  
2-17

Ship's Name Grieffenfels  
Port of Registry and Nationality. London BRITISH  
Official Number. 143115  
Gross Tonnage. 5852  
Date of Build. 1914  
3

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
Length on LOADLINE.	<u>422.5</u>	<u>56.6</u>	<u>29.60</u>	<u>5501</u>
CORRECTED DIMENSIONS.	<u>422.5</u>	<u>55.54</u>	<u>30.33</u>	<u>5486</u>

Moulded Depth as measured..... 32'-6"

Addition for Keel below base line for draught record..... inches.

NOTE.—If the depth is measured when vessel is afloat, the details of measurement should be reported.

### CORRECTION FOR LENGTH.

Length of Ship on Loadline..... 422.5  
Length in Table ..... 390  
Difference ..... 32.5  
Correction for 10ft., Table A. .... 1.648 Table C. 2.6  
× Difference divided by 10 ..... 5.2518 (if required.)  
If  $\frac{1}{10}$ ths length covered divide by 2 +5.4 +2.5 +2.5

### CORRECTION FOR IRON DECK.

Proportion covered, if less than  $\frac{1}{10}$ ths length covered ..... .563  
Thickness of usual wood deck, less stringer ..... 3 1/2 -3 1/4  
3" oak sheathing in wells = -1/4 -3 =

### CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 55'-8"  
Round of Beam ..... 13 3/4  
Normal round..... 13 7/8  
Difference ..... ✓ ÷ 2 =  
Proportion of Deck uncovered (Para. 19) ..... ✓

NOTE.—The round of beam should be reported on the full breadth of vessel at the gunwale.

Efficient of fineness..... .778  
Modification necessary {  
Para. 4 (a) to (e)]\* } Cell D. B.  
Efficient as corrected ..... .7675

Stem..... 114 } 148 ÷ 2 = 74 ...Mean  
Sternpost..... 34 }  
at  $\frac{1}{2}$  of the length from { Stem 66 1/2 } 78 1/2 ÷ 2 = 39 1/4 ...Mean  
Sternpost 12 }  
Mean Sheer ..... 21.36 81 1/2 (52 1/2) - 78 3/4  
Mean Sheer [Table, Para. 18] 52.25 52 1/4 × (2) = 104.5  
Difference..... 19.11 26 1/8 ÷ 4 =  
Limited as Para. 18 (f) ..... -4 3/4

Sheer in Sheer { At front of bridge house.....  
amidships {  
Para. 18 (e)] { At after end of forecastle .....  
÷ 2 = ✓

Sheer in Sheer {  
Para. 18 (d)] {  
Deck uncovered ..... ✓ Correction

### ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... 5'-5 1/2  
Correction for Length, if required (Para. 12, 13, and 14) ..... + 2 1/2  
Freeboard by Table A. corrected for sheer, and for length, if required (Para. 12, 13, and 14) ..... 8'-5 1/2  
Difference ..... 2 1/2  
Height as below..... 37.04  
13.15

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) ..... + 0 1/2  
Allowance for Deck Erections ..... 1-1 1/4

Length.	Length allowed.	Height.
Forecastle..... <u>55-10</u>	<u>55</u> <u>53.86</u>	<u>7-6</u>
Bridge House..... <u>126.6</u>	<u>124</u>	<u>9-4 1/2</u>
Raised Qr. Dk..... <u>60.0</u>	<u>60</u>	<u>8-4 1/2</u>
Total..... <u>242.4</u>	<u>239.237.86</u>	

Length of Ship ..... 422.5  
Bending percentage ..... 563 565 566  
Para. 11, 12, 13, or 14) 37.04%

Freeboard recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Iron) Deck:—  
Fresh Water Line above centre of Disc .....  
Indian Summer Line " " " .....  
Winter Line below " " .....  
Winter North Atlantic Line " " " .....

Freeboard, Table A ..... 8-6 1/2  
Correction for Sheer ..... - 5 1/4  
Correction for Length ..... + 5 1/4  
Allowance for Deck Erections ..... - 1-0 1/2  
Correction for Round of Beam..... ✓  
Correction for fall in Sheer (if any)..... ✓  
Correction for Iron Deck (if required) ..... ✓ - 3 1/4  
Additions for non-compliance with provisions of {  
Para. 11 (d) and (e)] {  
Other Corrections (if any) .....

Winter Freeboard ..... 7-2 1/4  
Summer Freeboard ..... 6-8 1/4  
Indian Summer Freeboard ..... 6-2 1/4  
N.A. Winter Freeboard..... ✓

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood or iron deck with side. 1 3/4

Winter Freeboard from deck line ..... 7-4 1/2 3 1/4  
Summer " " " " ..... 6-10 9 3/4  
Indian Summer " " " " ..... 6-1 1/2 3 3/4  
N.A. Winter " " " " ..... ✓

Freeboard from deck line ..... 6-9 1/2  
Summer " " " " ..... 6 1/2  
Indian Summer " " " " ..... 6  
N.A. Winter " " " " ..... ✓

If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.  
In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.  
In flush-decked vessels the total standard mean sheer means the sheer measured at the stem and sternpost. In vessels having poops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and sternpost.

State dimensions of freeing port area on back of this form.  
The Surveyor should state whether the fall in sheer as reported is measured relatively to the straight line of keel or to the water line. If measured relatively to water line the vessel's draft at time of survey, and also the usual load draft forward and aft, should be reported.

W425-0265

RECEIVED 29.6.20

Lloyd's Register  
Foundation



S.S. Greiffenfels.

Do all the Frames extend to the top height in the Poop? *yes* Raised Quarter Deck? *yes* Bridge House? *yes* Forecastle? *yes*  
 To what height do the Reverse Frames extend? *B.A. Framing.*  
 Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *yes*  
 Give particulars of the means for closing the openings in Bulkhead *Riveted Z bars, full height with storm boards to top of opening. and Coaming plate at bottom*  
 Is the Poop or Raised Quarter Deck connected with the Bridge House? *no* Has the Bridge House an efficient Bulkhead at the fore end? *yes*  
 Give particulars of the means for closing the openings in Bulkhead *Iron W.T. doors with hinges & clips*  
 What is the thickness of the Bridge Front plating? *.40"* and Coaming plate? *.50"*  
 Give scantlings and spacing of the Stiffeners *B.A. 9 1/2 x 3 1/2 x 60. Spacing as per sketch.* *20* Ventilator strongly built.  
 Are bracket plates fitted at each end of the Stiffeners? *yes* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *yes*  
 Has the Bridge House an efficient Iron Bulkhead at the after end? *yes*  
 How are the openings closed? *Riveted Z bars, full height, with storm boards to top of opening & Coaming plate at bottom.*  
 Is the Forecastle at least as high as the main or top-gallant rail? *yes* Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *yes*  
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *By bridge deck*  
 If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *yes*  
 Give thickness of plating; scantlings and spacing of Stiffeners *yes*  
 What is the height of the exposed Casings? *yes* Are suitable means provided for closing all openings in them in bad weather? *yes*

Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below:— *yes*

Position and Size.	Upper DK		Bridge DK		Poop DK	
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING. Height above top of DECK	S. 31 1/2"	C 36"	S. 31"	C 36"	S. 31"	C 36"
Thickness { Sides	.44		.44		.44	
Ends	.40		.40		.40	
SHIFTING BEAMS OR WEB PLATES. Number	E 18" C 23" x 32		E 27 1/2" C 32 1/2" x 36		E 19" C 24" x 32	
Section and Scantlings	3 x 3 x .40		4 x 3 x .40		3 x 3 x .40	
Material	5/8 x 3 1/2 x 40		5/8 x 3 1/2 x 58		5/8 x 3 1/2 x 40	
FORE AND AFTERS. Number						
Section and Scantlings						
Material						
HATCHES Thickness	ALL Hatches		from 2 3/4" to 3"			
Remarks						

\* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

(If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.  
 What is the thickness of the Bridge Sheerstrake? *Strake between Main and Bridge Sheerstrakes?*

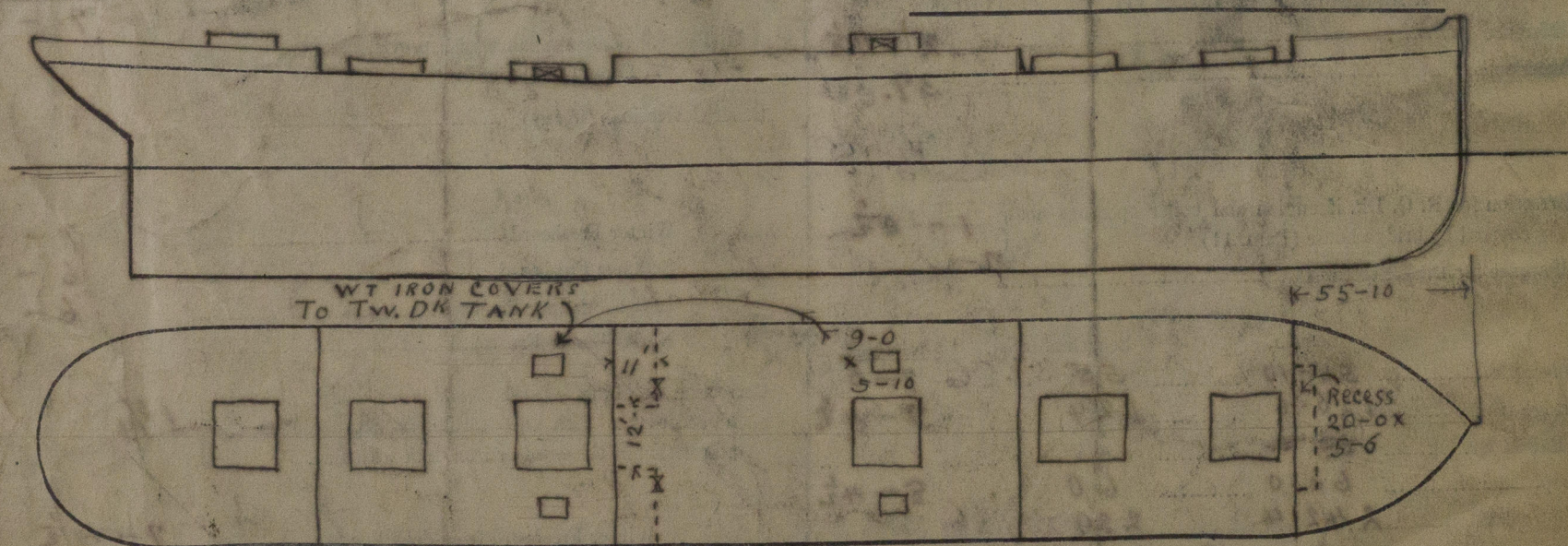
Delete the words { The Crew are, are not, berthed in the bridge house.  
 that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.

Length of Bulwarks in well

Area of Freeing Ports required by Para. 11 (e) each side of vessel = Sq. ft.

Ft. Tenth.	Ft. Tenth.	No.	Freeing Ports (each side of vessel) =	Sq. ft.
x	x	x		
x	x	x		

Total deficiency or excess = Sq. ft.



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

State any special features in the construction of the Vessel *The following particulars are taken from previous freeboard Certificate.*

*2.06 F. 2-06 = 81 3/8 B of T. from 2-5 19 10*  
*0-16 = 6 5/16 2-6-20. when it expires. FW 6 3/4*  
*0-15 = 5 15/16 W. 6.*  
*Berlin 6/3/14.*

Owners

Address

Received by me *26/6/20 B.P.M.*